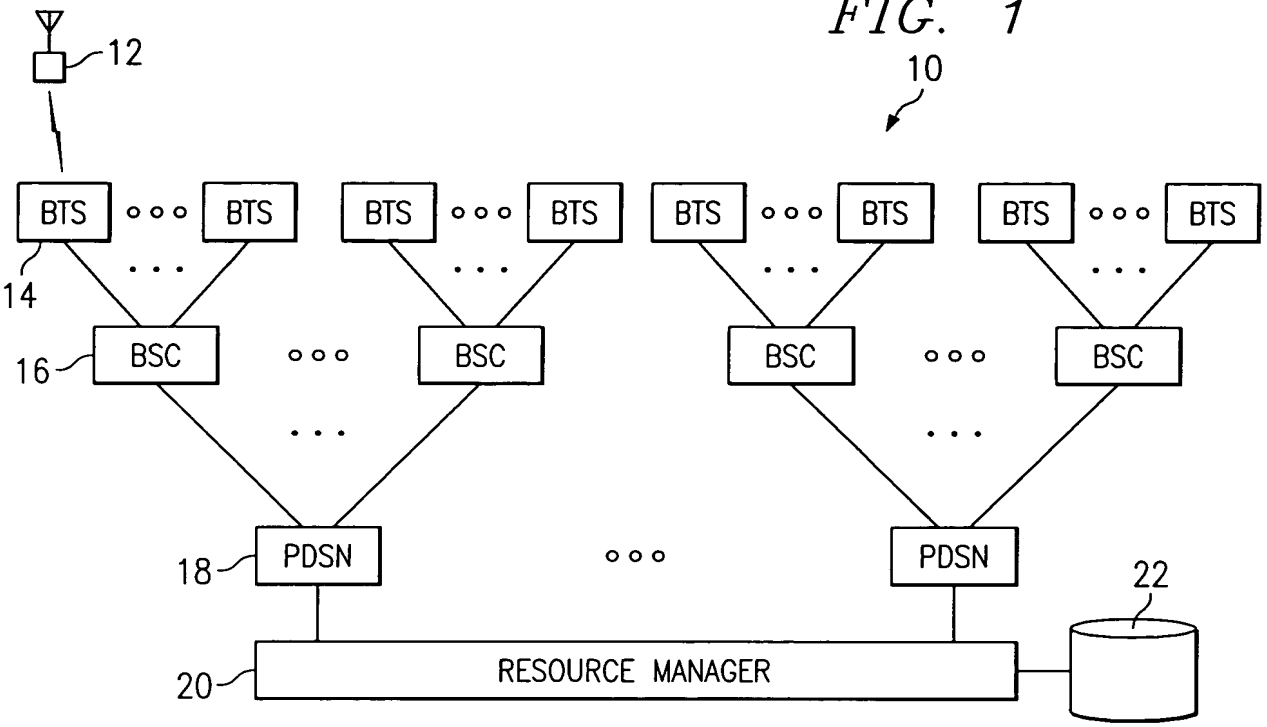
1/3

FIG. 1



CELL A

	4:30	4:40	4:50	5:00	5:10	5:20
INT 1	20	25	30	90	95	110
INT 2	10	5	35	110	120	105
DIFF 1	5	10	20	100	90	80
DIFF 2	5	5	5	20	10	40

FIG. 2a

MSID	1 CELL CALL(cc)	2cc	3cc	4cc	5cc	6cc	7cc	8cc	9cc	10cc
011	30	25	30	5	10	2	4	0	2	1
	100	70	45	25	20	10	8	4	4	2

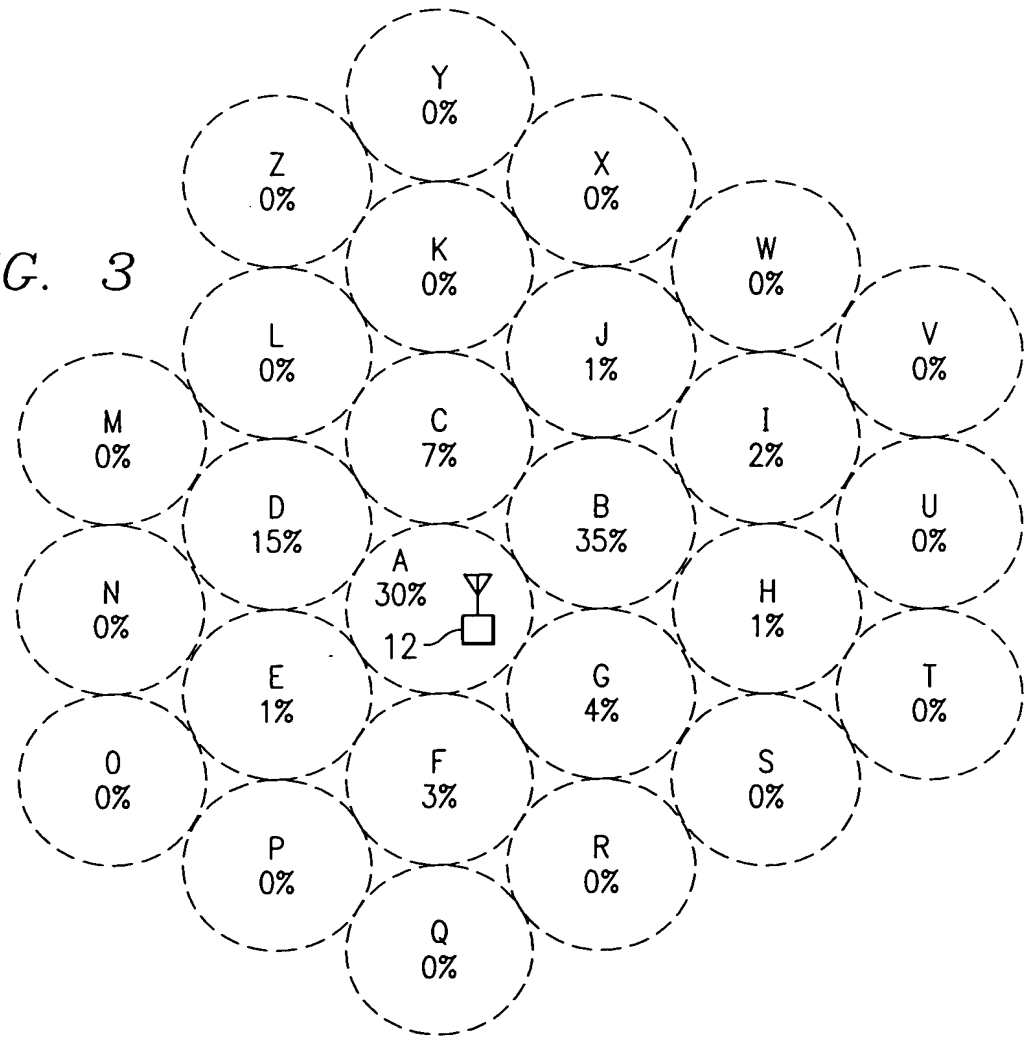
FIG. 2b

MSID

011 RANK NUMBER	1	2	3	4	5	6	7	8	9	10
CELL	B	A	D	C	G	F	I	E	H	J
%	35	30	15	7	4	3	2	1	1	1

FIG. 2c

FIG. 3



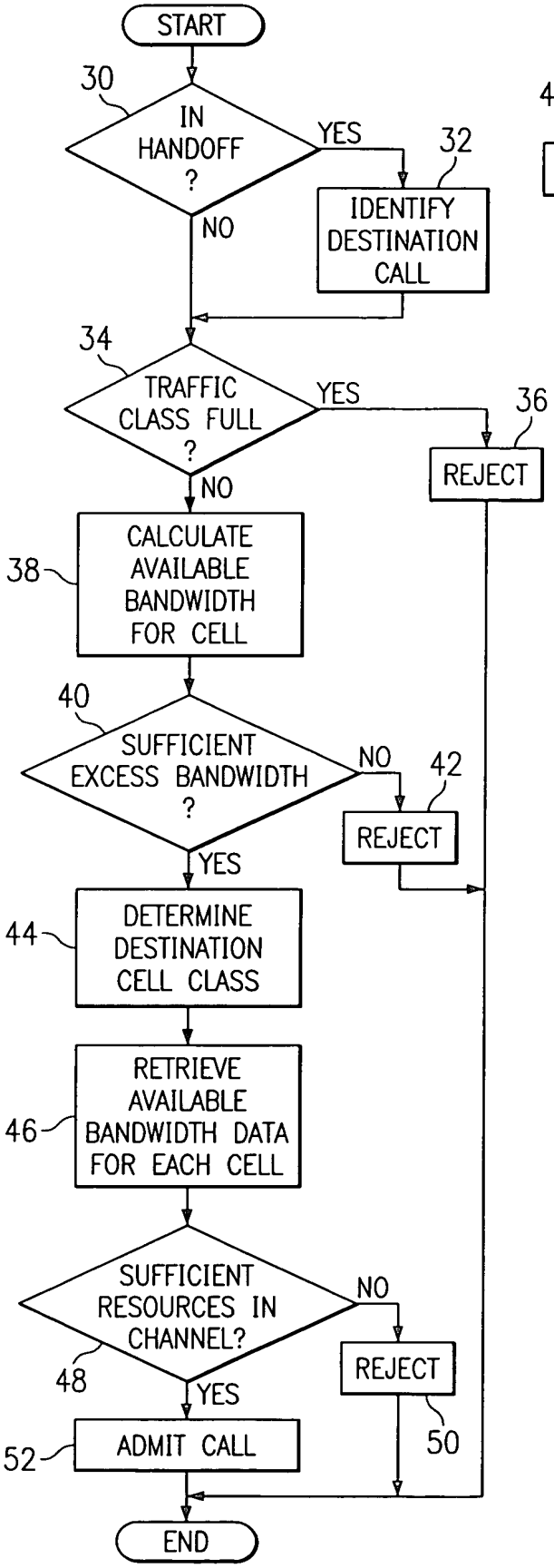

START
30
IN HANDOFF ?
YES
32
IDENTIFY DESTINATION CALL
NO
34
TRAFFIC CLASS FULL ?
YES
36
REJECT
NO
38
CALCULATE AVAILABLE BANDWIDTH FOR CELL
40
SUFFICIENT EXCESS BANDWIDTH ?
NO
42
REJECT
YES
44
DETERMINE DESTINATION CELL CLASS
46
RETRIEVE AVAILABLE BANDWIDTH DATA FOR EACH CELL
SUFFICIENT RESOURCES IN CHANNEL?
NO
REJECT
48
YES
50
52
ADMIT CALL
END

FIG. 4a

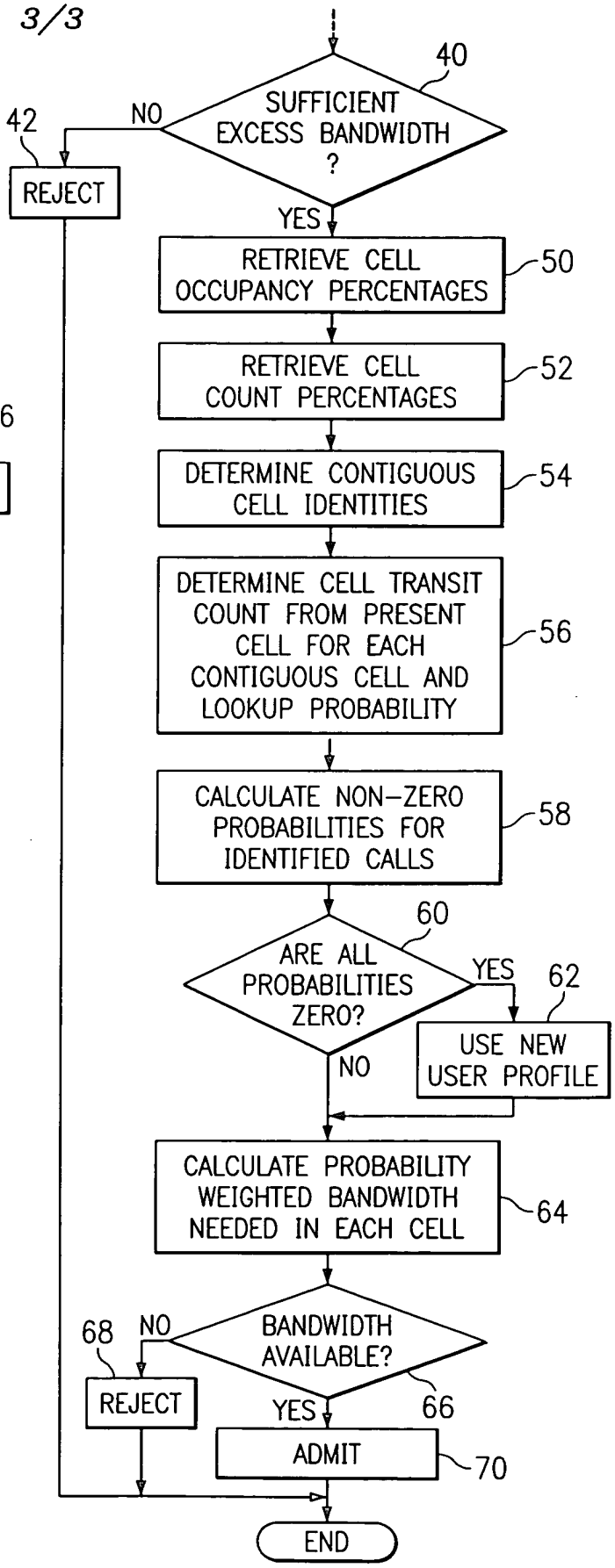

40
SUFFICIENT EXCESS BANDWIDTH ?
NO
42
REJECT
YES
RETRIEVE CELL OCCUPANCY PERCENTAGES
50
RETRIEVE CELL COUNT PERCENTAGES
52
DETERMINE CONTIGUOUS CELL IDENTITIES
54
DETERMINE CELL TRANSIT COUNT FROM PRESENT CELL FOR EACH CONTIGUOUS CELL AND LOOKUP PROBABILITY
56
CALCULATE NON-ZERO PROBABILITIES FOR IDENTIFIED CALLS
58
60
ARE ALL PROBABILITIES ZERO?
YES
62
USE NEW USER PROFILE
NO
CALCULATE PROBABILITY WEIGHTED BANDWIDTH NEEDED IN EACH CELL
64
68
NO
BANDWIDTH AVAILABLE?
66
REJECT
YES
ADMIT
70
END

FIG. 4b